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THAT WHICH IS CLAIMED IS:

1. A method for preserving a session between an SNA application and a TN3270E server after loss of an Internet protocol ("IP") connection between the TN3270E server and a TN3270E client that is associated with the session, the method comprising:

reestablishing the IP connection between the TN3270E server and the TN3270E client; and then

forwarding a screen refresh request to the SNA application.

10 2. The method of Claim 1, wherein the method further comprises:

receiving a screen refresh from the SNA application; and

forwarding the screen refresh to the TN3270E client over the reestablished IP connection.

- 3. The method of Claim 2, wherein the step of forwarding a screen refresh request to the SNA application comprises sending an LUSTAT message to the SNA application.
- 20 4. The method of Claim 2, wherein the method further comprises:

receiving a user logon screen from the SNA application in response to the LUSTAT message;

forwarding the user logon screen to the TN3270E client;

receiving logon information from the TN3270E client;

checking the authenticity of the received logon information; and

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forwarding the screen refresh to the TN3270E client over the reestablished IP connection only if the received logon information is authentic.

- 5. The method of Claim 2, wherein the screen refresh received from the SNA application and forwarded to the TN3270E client comprises a last data screen that was forwarded from the SNA application and acknowledged as received by the TN3270E client.
- 6. The method of Claim 1, wherein the method further comprises:

receiving a user logon screen from the SNA application in response to the screen refresh request;

forwarding the user logon screen to the TN3270E client;

15 receiving logon information from the TN3270E client;

checking the authenticity of the received logon information; and

resuming the session if the received logon information is authentic.

- 7. The method of Claim 4, wherein the steps of forwarding a screen refresh request to the SNA application, receiving a screen refresh from the SNA application and forwarding the screen refresh to the TN3270E client over the reestablished IP connection are performed by the TN3270E server.
- 8. The method of Claim 2, wherein the IP connection comprises a TCP/IP connection.
 - 9. A method for reestablishing a TCP/IP

connection between a TN3270E client and a TN3270E server after loss of a first TCP/IP connection between the TN3270E client and the TN3270E server in which the TN3270E client connected to the TN3270E server under a first Logical Unit ("LU") name, the method comprising:

receiving a connection request, wherein the connection request specifies the first LU name;

transmitting a query addressed to the TN3270E client over the first TCP/IP connection;

establishing a second TCP/IP connection in response to the connection request if a response to the query is not received within a specified time period; and

resuming communications over the second $\ensuremath{\mathsf{TCP/IP}}$ connection.

- 10. The method of Claim 9, wherein the query comprises a query to which the TN3270E client automatically responds.
 - 11. The method of Claim 9, wherein the query comprises a timemark request.
- 20 12. The method of Claim 9, further comprising the step of authenticating the identity of the TN3270E client prior to resuming communications with the TN3270E client over the second TCP/IP connection.
- 13. The method of Claim 12, wherein the authenticating step comprises:

receiving an X.509 certificate over the second TCP/IP connection; and

verifying that the $\rm X.509$ certificate corresponds to the $\rm TN3270E$ client.

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- 14. The method of Claim 13, wherein the step of transmitting a query is only performed if the X.509 certificate corresponds to the TN3270E client.
- 15. The method of Claim 9, wherein the method further comprises forwarding a screen refresh request to the SNA application over the second TCP/IP connection.
 - 16. The method of Claim 15, wherein the method further comprises:

receiving a screen refresh from the SNA application; and

forwarding the screen refresh to the TN3270E client over the second TCP/IP connection.

- 17. The method of Claim 16, wherein the step of forwarding a screen refresh request to the SNA application comprises sending an LUSTAT message to the SNA application.
- 18. The method of Claim 16, wherein the method further comprises:

receiving a user logon screen from the SNA application in response to the LUSTAT message;

forwarding the user logon screen to the TN3270E client;

receiving logon information from the TN3270E client;

checking the authenticity of the received logon information; and

forwarding the screen refresh to the TN3270E client over the second TCP/IP connection only if the received logon information is authentic.

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19. A system for preserving a session between an SNA application and a TN3270E server after loss of an Internet protocol ("IP") connection between the TN3270E server and a TN3270E client that is associated with the session, comprising:

means for reestablishing the IP connection between the TN3270E server and the TN3270E client; and means for forwarding a screen refresh request to

20. A system for reestablishing a TCP/IP connection between a TN3270E client and a TN3270E server after loss of a first TCP/IP connection between the TN3270E client and the TN3270E server in which the TN3270E client connected to the TN3270E server under a first Logical Unit ("LU") name, comprising:

the SNA application.

means for receiving a connection request, wherein the connection request specifies the first LU name;

means for transmitting a query addressed to the TN3270E client over the first TCP/IP connection;

means for establishing a second TCP/IP connection in response to the connection request if a response to the query is not received within a specified time period; and

means for resuming communications over the second TCP/IP connection.

21. A computer program product for preserving a session between an SNA application and a TN3270E server after loss of an Internet protocol ("IP") connection between the TN3270E server and a TN3270E client that is associated with the session, the computer program product comprising a computer usable storage medium

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having computer readable program code means embodied in the medium, the computer readable program code means comprising:

computer readable program code means for reestablishing the IP connection between the TN3270E server and the TN3270E client; and

computer readable program code means for forwarding a screen refresh request to the SNA application.

22. A computer program product for reestablishing a TCP/IP connection between a TN3270E client and a TN3270E server after loss of a first TCP/IP connection between the TN3270E client and the TN3270E server in which the TN3270E client connected to the TN3270E server under a first Logical Unit ("LU") name, the computer program product comprising a computer usable storage medium having computer readable program code means embodied in the medium, the computer readable program code means code means comprising:

computer readable program code means for receiving a connection request, wherein the connection request specifies the first LU name;

computer readable program code means for transmitting a query addressed to the TN3270E client over the first TCP/IP connection;

computer readable program code means for establishing a second TCP/IP connection in response to the connection request if a response to the query is not received within a specified time period; and

computer readable program code means for resuming communications over the second TCP/IP connection.